



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/062,681	01/31/2002	Jennifer Geske	10007033-1	2182

7590 07/31/2006

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

QIN, YIXING

ART UNIT	PAPER NUMBER
----------	--------------

2625

DATE MAILED: 07/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/062,681

Applicant(s)

GESKE ET AL.

Examiner

Yixing Qin

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

In response to applicant's amendment received 4/17/06, all requested changes have been entered.

Response to Arguments

The Examiner agrees with the arguments made, but has found a different reference, Buckley (U.S. Patent No. 6,542,173), that teaches/suggests similar methods and apparatus as the claimed invention, which includes all previously objected claims (21, 34 and 35). Please see the rejections below for more detail.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 5 recites the limitation "...storing the classification...". There is insufficient antecedent basis for this limitation in the claim. Examiner believes it should have said "storing the categorization..." Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2625

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

I. Claims 1-7, 12, 13, 15, 16, 20, 21, 23-27, 29-31, 33 and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Buckley (U.S. Patent No. 6,542,173).

Regarding claim 1, Buckley discloses a method for electronically monitoring the contents of a print job generated from print data, comprising:

analyzing the print data to build statistical information about content within the print data (Fig. 1 and column 4, lines 56-62) ; and

categorizing the print job using the statistical information according to pre-specified categorization criteria. (Fig. 1 and column 4, lines 56-62).

Regarding claim 2, Buckley discloses wherein the analyzing the print data to build statistical information is incorporated in a printer driver. (column 8, lines 36-50, especially lines 40-44).

Regarding claims 3 and 20, Buckley discloses wherein at least a portion of the printer driver is a software printer driver. (column 8, lines 36-50, especially lines 40-44).

Regarding claim 4, Buckley discloses wherein at east a portion of the printer

driver is a firmware printer driver. (column 8, lines 36-50, especially lines 40-44).

Regarding claims 5 and 29, Buckley discloses further comprising storing the classification in a log file. (Fig. 5 – although shown is an user interface with object type and settings, it is inherent that this information is stored in a memory in the form of a file. Also see column 6, lines 41- column 7, line 23).

Regarding claims 6, 30, The Buckley reference discloses “using the categorization information from the log file for examination, building, enhancing and verifying future categorization matches.” (column 6, lines 54-67 and column 7, lines 1-46).

Regarding claims 7, 24, and 31, Buckley discloses further comprising gathering input criteria from a user before a print job is initiated and categorizing the print job based on the statistical analysis and the input criteria. (column 4, lines 56-62, also column 4, lines 8-55 describes how an user can set parameters for document types)

Regarding claims 13 and 26, Buckley discloses further including:
developing at least one new categorization category. (Fig. 3 shows text/photo and column 9, lines 42-59 discusses how if additional multi-document types are implemented and can be automatically selected).

Art Unit: 2625

Regarding claim 12, Buckley discloses further including:

processing the log file so as to determine effectiveness of the categorizing; and
(column 6, lines 54-67 and column 7, lines 1-46).

updating the pre-specified categorization criteria so as to improve the
effectiveness of the categorizing. (column 7, lines 24-34).

Regarding claim 15, Buckley discloses wherein analyzing the print data includes
sorting page content by drawing commands, grouping drawing command collections
into pre-determined object types (column 11, lines 66 - column 12, lines 15), and
differentiating between a first drawing style and a second drawing style. (column 11,
lines 66-67 and column 7, lines 1-14).

Regarding claim 16, Buckley discloses wherein analyzing and categorizing are
performed before the print job is printed. (column 8, lines 28-35).

Regarding claims 21 and 24, Buckley discloses further comprising a client
monitoring program that determines whether a new classification category needs to be
developed. (column 8, lines 36-67 to column 11, lines 1-48, especially column 9, lines
42-58).

Regarding claim 23, Buckley discloses in a system for electronically monitoring
the contents of a print job generated from print data, a computer-readable medium

having computer-executable instructions for performing a process on a computer, the process comprising:

statistically analyzing the print data to form object type percentages using drawing command information; (Fig. 1 and column 4, lines 56-62)

classifying the print job using the statistical analysis and according to pre-specified categorization criteria; (Fig. 1 and column 4, lines 56-62) and

storing the classification in a log file and using the classification from the log file for examination and for building, enhancing and verifying future classification matches. (column 6, lines 54-67 and column 7, lines 1-46).

Regarding claim 25, Buckley discloses the computer-readable medium having computer-executable instructions for performing the process of claim 24, further comprising:

monitoring all print jobs and providing at least one of an automatic rejection, acceptance or confirmation of the print job as user feedback before the print job is sent to peripheral device. (column 9, lines 42-59).

Regarding claims 27 and 33, Buckley discloses a system for managing print jobs of documents containing at least one page, comprising:

means for collecting drawing commands for a given page; (column 11, lines 66 - column 12, lines 15)

means for collapsing the collected drawing commands into pre-determined categories; and (column 11, lines 66 - column 12, lines 15)

means for classifying the print job using the pre-determined classifications. (Fig. 1 and column 4, lines 56-62).

Regarding claim 35, Buckley discloses the method of claim 34, wherein the pre-determined classifications include text, at least one of solid or unfilled circle line/graphics, clip art style images, and photographic images. (column 12, lines 2-14).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

II. Claims 8-11, 17-19, 28 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckley (U.S. Patent No. 6,542,173).

Regarding claim 8, the Buckley reference discloses the analysis of print data using a printer driver.

It does not explicitly disclose "classifying the print job as an unknown job type if the categorizing is unsuccessful."

However, Buckley discloses in column 7, lines 47-62 various ways to categorize a document. In lines 55-62, Buckley discloses that it might be possible that a mix content type does not exist (i.e. undefined) and either the document would be printed using a most-predominant or a default type. It is not explicitly stated that Buckley categorizes the document as an unknown job type, but clearly suggests so.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have an unknown type.

The motivation would have been to allow one software/hardware component to perform a print when certain documents do not fall within a certain category.

Therefore, it would have been obvious to use Buckley to obtain the invention as specified.

Regarding claim 9, Buckley discloses wherein the categorizing at least one print job category associated with the print job, further comprising:

performing an action based on the at least one print job category. (column 7, lines 60-62).

Regarding claim 10, Buckley discloses the method of claim 9, wherein the action is selected from a group consisting of alerting an administrator, providing control to the administrator, printing the print job, and inhibiting printing of the print job. (column 7, lines 60-62 says a default or most-predominant job type can be chosen and, of course, printed)

Regarding claim 11, the Buckley reference discloses the analysis of print data using a printer driver.

It does not explicitly disclose "wherein at least one print category is an unknown print job type."

However, Buckley discloses in column 7, lines 47-62 various ways to categorize a document. In lines 55-62, Buckley discloses that it might be possible that a mix content type does not exist (i.e. undefined) and either the document would be printed using a most-predominant or a default type. It is not explicitly stated that Buckley categorizes the document as an unknown job type, but clearly suggests so.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have an unknown type.

The motivation would have been to allow one software/hardware component to perform a print when certain documents do not fall within a certain category.

Therefore, it would have been obvious to use Buckley to obtain the invention as specified.

Regarding claim 17, Buckley discloses a system for managing printing operations on a computer, comprising:

a statistical module that collects drawing commands and collapses the collected drawing commands into pre-determined classifications; (column 11, lines 66-67 and column 7, lines 1-14) and

a filtering module coupled to the statistical module that filters the pre-determined classifications using pre specified category criteria and categorizes the print job into at least one predefined print job category. (Fig. 1 and column 4, lines 56-62).

Although Buckley does not call the items in his invention a statistical and a filtering module, the functions are essentially the same. Please see also, Fig. 2 and column 6, lines 66-67 and column 7, lines 1-23.

Regarding claim 18, Buckley discloses further comprising a secondary filter module that uses the pre-determined classifications and input criteria predefined by a user and relating to the printing operation for categorizing the print job. (column 4, lines 8-62). Again, Buckley does not explicitly have "a secondary filter," but does describe similar functions.

Regarding claim 19, Buckley discloses the system for managing printing operations of claim 17, wherein the drawings commands include at least one of vector graphics, raster graphics or textual fonts and are predefined by an administrator. (column 10, lines 26-39 and column 11 lines 66-67 and column 12, lines 1-14).

Regarding claim 28, Buckley discloses a printing system working in a computer environment, comprising:

an application program that generates print data for a print job; (column 6, lines 57-62)

a printer that receives the print data for printing the print jobs; (column 6, lines 57-62)

a software printer driver coupled to the printer and application program for analyzing the print data to build statistical information about content within the print data; and (Fig. 1 and column 4, lines 56-62)

a filter module coupled to the software printer driver for categorizing the print job using the statistical information according to pre-specified categorization criteria. (Fig. 1 and column 4, lines 56-62).

Again, although Buckley does not call the items in his invention a statistical and a filtering module, the functions are essentially the same. Please see also, Fig. 2 and column 6, lines 66-67 and column 7, lines 1-23.

Regarding claim 32, Buckley discloses a client monitoring program that approves the print job and allows the print job to be printed. (column 8, lines 7-17).

III. Claims 14, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckley (U.S. Patent No. 6,542,173) in view of Barrett (U.S. Patent No. 5,323,393).

Regarding claim 14, the Buckley reference discloses the analysis of print data using a printer driver.

It does not explicitly disclose "The method of claim 5, further including: processing the log file so as to characterize printing usage."

However, Barrett discloses in column 14 lines 37-68 to column 15, lines 1-9, that the statistical log information and the enhanced print service management can read on processing the log file to characterize printing usage.

Buckley and Barrett are combinable because both are in the art of optimizing print jobs.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have an account of the usage information of a printing device if one were to have additional information in the log file such as that of the Barrett reference.

The motivation would have been to allow one to know what types and number of prints were printed so that one can know how to further optimize printing.

Therefore, it would have been obvious to use Buckley and Barrett to obtain the invention as specified.

Regarding claim 22, the Buckley reference discloses the analysis of print data using a printer driver.

It does not explicitly disclose "the client monitoring program is preprogrammed to send an error message to a user attempting to initiate the print job blocking all print jobs that are classified with unknown designations.

However, Barrett discloses in column 24, lines 37-40 that an LED signal informs an user of an error.

Buckley and Barrett are combinable because both are in the art of optimizing print jobs.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have signaled an user of an error before printing.

The motivation would have been to allow one to know that a document is about to be printed.

Therefore, it would have been obvious to use Buckley and Barrett to obtain the invention as specified.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yixing Qin whose telephone number is (571)272-7381. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Lamb can be reached on (571)272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


YQ


TWYLER LAMB
SUPERVISORY PATENT EXAMINER